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02188131 **Image available**

DECISION DEVICE FOR PARTICLE FLOCCULATION

PUB. NO.: 62-105031 [JP 62105031 A]

PUBLISHED: May 15, 1987 (19870515)

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APPL. NO.: 60-243899 [JP 85243899]

FILED: November 01, 1985 (19851101)

INTL CLASS: [4] G01N-021/17; G01N-033/543

JAPIO CLASS: 46.2 (INSTRUMENTATION -- Testing)

JOURNAL: Section: P, Section No. 626, Vol. 11, No. 313, Pg. 103,
October 13, 1987 (19871013)

ABSTRACT

PURPOSE: To decide the flocculation of particles accurately by providing a light source above and below a plate mount table and guiding both reflected light from the upper light source and transmitted light from the lower light source to a TV camera.

CONSTITUTION: A particle flocculation decision device has the main light source 8 provided above the plate mount table 5 and the auxiliary light source 9 below it. The main light source 8 irradiates each well of a microplate 6 with light having uniform intensity and the irradiated light is made incident on the dilution liquid in the well. The auxiliary light source 9, on the other hand, irradiates the reverse surface of the plate 6 with light having uniform intensity and the inside of the well is lighted brightly with the light from below. Then, light emitted from each well is made incident on the TV camera 13 through a mirror 14, a filter 15, and a mirror 14 and optical states of all wells are inputted to the TV camera 13 and those input optical states are sent as an image signal to an image processor 2, which performs specific processing to decide the flocculation. Thus, the flocculation is decided speedily and accurately.

